

Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
1567/70937-ZBSerial No.  
Not Yet KnownApplicant(s)  
Jacob Bar-TanaFiling Date  
Herewith

Group Art Unit

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
DDC	4 6 3 4 7 9 5					
	4 6 8 9 3 4 4					
	4 7 1 1 8 9 6					
	4 9 5 4 4 8 7					
	5 5 0 2 2 2 6					
	5 5 0 2 0 7 7					
	5 6 4 1 8 1 0					
	6 3 0 3 6 5 3					

## FOREIGN PATENT DOCUMENTS

		Document Number		Date	Name	Class	Translation	
							Yes	No
DDC	WO	98 3 0 5 3 0						
	WO	98 3 6 7 4 5						
	IS	1 1 9 9 7 1						
	IS	1 2 1 1 6 5						
	EPO	0 6 6 1 0 4 9						
	EPO	0 0 8 1 9 3 0						

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

DDC	Bar-Tana et al., "Inhibition of lipid synthesis by $\beta, \beta'$ tetramethyl-substituted C14-C22 $\alpha, \omega$ dicarboxilic acids in the rat <i>in vivo</i> ", <i>J. Biol. Chem.</i> , 260:8404-8410 (1985);
	Bar-Tana et al., "Hypolipidemic effect of $\beta, \beta'$ -methyl-substituted hexadecanedioic acid (MEDICA 16) in normal and nephrotic rats", <i>J. Lipid Res.</i> , 29:431-441 (1988);
	Bar-Tana et al., "Hypolipidemic effect of $\beta, \beta'$ -methyl-substituted hexadecanedioic acid in normal and nephrotic rats", <i>J. Lipid Res.</i> , 29:4431-441 (1988);
	Bar-Tana et al., "Long chain dicarboxylic acids: Hypolipidemic, antiobesity and antidiabetic activity", <i>New Antibiotic Drugs</i> , (Eds. Bailey, C.J., Flatt P.R.). Smity-Torton and Comp. (1990);
	Bar-Tana et al., "Synthesis, hypolipidemic and antidiabetogenic activities of $\beta, \beta'$ tetra-substituted, long chain dioic acids", <i>J. Med. Chem.</i> , 32:2072-2084 (1989);

## EXAMINER

/Deborah Carr/

## DATE CONSIDERED

04/21/2006

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.







<b>Form PTO-1449</b>		<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>		<b>Atty. Docket No.</b> <b>1567/70937-ZB</b>		<b>Serial No.</b> <b>Not Yet Known</b>		
		<b>Applicant(s)</b> <b>Jacob Bar-Tana</b>		<b>Filing Date</b> <b>Herewith</b>		<b>Group Art Unit</b>		
		<b>INFORMATION DISCLOSURE CITATION</b> <b>(Use several sheets if necessary)</b>		<b>U.S. PATENT DOCUMENTS</b>				
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<b>FOREIGN PATENT DOCUMENTS</b>								
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation	
							Yes	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>								
DDC		Leff, T., Reue, K., Melian, A., Culver, H. & Breslow J.L., "A regulatory element in the ApoCIII promoter that directs hepatic specific transcription binds to proteins in expressing and nonexpressing cell types", <i>J. Biol. Chem.</i> , 264:16132-16137 (1989);						
↓		Limatta et al., "Dietary Polyunsaturated Fatty Acids Interfere with the Insulin/Glucose Activation of I-type Pyruvate Kinase Gene Transcription", <i>Molecular Endocrinology</i> , 8:1147-1153 (1994).						
↓		Mayorek et al., "Hypocholesterolemic effect of -methyl-substituted hexadecanedioic acid (MEDICA 16) in obese Zucker rats in vivo", 289:911-917 (1993);						
↓		Mayorek et al., "Sensitization to insulin induced by -methyl-substituted hexadecanedioic acid (MEDICA 16) in obese Zucker rats in vivo", <i>Diabetes</i> , (1997);						
<b>EXAMINER</b> /Deborah Carr/		<b>DATE CONSIDERED</b> 04/21/2006						
<b>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</b>								

<b>Form PTO-1449</b> <b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>		<b>Atty. Docket No.</b> <b>1567/70937-ZB</b>		<b>Serial No.</b> <b>Not Yet Known</b>			
		<b>Applicant(s)</b> <b>Jacob Bar-Tana</b>					
		<b>Filing Date</b> <b>Herewith</b>		<b>Group Art Unit</b>			
<b>INFORMATION DISCLOSURE CITATION</b> <b>(Use several sheets if necessary)</b>							
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials	Document Number	Date	Name	Class	Subclass	Translation	
						<b>Yes</b>	<b>No</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	Morris, M.C., Saks, F. & Rosner, B. Circulation 88, 523-533 (1993)						
	Neupert et al., "Effects of ibuprofen enantiomers and its coenzyme A thioesters on human prostaglandin endoperoxide synthases", BR. J. Pharmacol., 122(3):487-492 (1997);						
	Russel et al., "The hypolipidemic effect of tetramethylhexadecanedioic acid (MEDICA 16) in hyperlipidemic JCR:LA-corpulent rats", Arteriosclerosis and Thrombosis, 11:602-609 (1991);						
	Russell et al., "Inhibition of artherosclerosis and myocardial lesions in the JCR:LA-cp rat by -tetramethyl hexadecanedioic acid", Arterioscler. Thromb. Vasc. Biol., 15:918-923;						
<b>EXAMINER</b> /Deborah Carr/			<b>DATE CONSIDERED</b> 04/21/2006				
<b>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</b>							



Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office				Atty. Docket No. 1567/70937-ZB		Serial No. Not Yet Known		
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)						Applicant(s) Jacob Bar-Tana				
		Filing Date Herewith		Group Art Unit						
<b>U.S. PATENT DOCUMENTS</b>										
Examiner Initials		Document Number		Date	Name		Class	Subclass	Filing Date If Appropriate	
<b>FOREIGN PATENT DOCUMENTS</b>										
Examiner Initials		Document Number		Date	Name		Class	Subclass	Translation	
									Yes	No
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>										
DDC		Tracy et al., "Metabolic inversion of (R)-ibuprofen-Coenzyme A", Drug Metabol. Dispos., 21(1):114-120 (1993);								
↓		Tzur et al., "Adipose reduction by -tetramethyl-substituted hexadecanedioic acid (MEDICA 16)", Int. J. Obesity, 13:313-326 (1989);								
↓		Tzur et al., "The hypolipidemic antiobesity and hypoglycemic-hypoinsulinemic effects of -methyl-substituted hexadecanedioic acid in sand rats", Diabetes, 37:1618-1624 (1988);								
↓		Unger, R.H., "Lipotoxicity in the pathogenesis of obesity-dependent NIDDM. Genetic and clinical implications", Diabetes 44, 863-870 (1995); and								
↓		Yamagata, K. et al., "Mutations in hepatic nuclear factor alpha gene in maturity onset diabetes of the young (MODY 1)", Nature, 384:458-460 (1996).								
EXAMINER <i>/Deborah Carr/</i>				DATE CONSIDERED 04/21/2006						
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.										



Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 1567/70937-ZB JPW/AG	Serial No. 10/735,452	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicant(s) Jacob Bar-Tana		
					Filing Date December 11, 2003	Group Art Unit	
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation
							Yes
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
DDC		Cave, William T., Dietary n-3 ( $\omega$ -3) Polyunsaturated fatty acid effects on animal tumorigensis, (1991) FASEB J. Vol. 5: pp. 2160-2166 (Exhibit 1)					
DDC		Chin, J.P.F., Marine Oils and Cardiovascular Reactivity, (1994), Prostaglandins Leukotrienes and Essential Fatty Acids Vol. 50, pp: 211-222 (Exhibit 2);					
DDC		Grundy, Scott M., et al., (1990), Dietary Influences on Serum Lipids and Lipoproteins, Journal of Lipid Research, Vol. 31. pp. 1149-1172 (Exhibit 3);					
DDC		Hultin, Mae B., M.D., (1991) Fibrinogen and Factor VII as Risk Factors in Vascular Disease, Prog. Hemost. Thromb., 10:215-241 (Exhibit 4)					
DDC		Leff, Todd, et al., (1989), A Regulatory Element in the ApoCIII Promoter that Directs Hepatic Specific Transcription Binds to Proteins in Expressing and Nonexpressing Cell Types*, Journal of Biological Chemistry, Vol. 27, pp: 16132-16137 (Exhibit 5)					
EXAMINER			DATE CONSIDERED				
/Deborah Carr/			04/21/2006				
<p>*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office			Atty. Docket No. 1567/70937-ZB JPW/AG		Serial No. 10/735,452
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)					Applicant(s) Jacob Bar-Tana		
		Filing Date December 11, 2003		Group Art Unit			
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation
							Yes
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
DDC		Morris, et al. (1993) Circulation, Does Fish Oil Lower Blood Pressure?, Vol. 88, pp: 523-533 (Exhibit 6);					
DDC		Sladek, Frances M., et al. (1994), Liver Gene Expression, Molecular Biology Intelligence Unit (HNF4), Chapter 11 (Exhibit 7)					
DDC		Sladek, Frances M., et al., (1990), Liver-enriched transcription factor HNF-4 is a novel member of the steroid hormone receptor superfamily, Genes Dev., Vol. 4(12B) pp:2353-2365 (Exhibit 8)					
DDC		Storlien, Leonard H., et al., (1987), Fish Oil Prevents Insulin Resistance Induced by High-Fat Feeding in Rats, Science, Vol. 237, pp:885-888 (Exhibit 9)					
DDC		The Metabolic and Inherited Bases of Inherited Disease (eds., Scriver, C.R., Beaudet, A.L., Sly, W.S., Valle, D.) Vol. II, Part 8, 1995 (McGraw-Hill, Inc.) (Exhibit 10)					
EXAMINER		/Deborah Carr/		DATE CONSIDERED		04/21/2006	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO-1449		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 1567/70937-ZB JPW/AG		Serial No. 10/735,452	
				Applicant(s) Jacob Bar-Tana			
				Filing Date December 11, 2003		Group Art Unit	
<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)							
<b>U.S. PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials		Document Number	Date	Name	Class	Subclass	Translation
							Yes
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
DDC		Unger, Roger H., (1995), Lipotoxicity in the pathogenesis of Obesity-Dependent NIDDM, Diabetes, Vol. 44, pp:863-870 (Exhibit 11)					
DDC		Yamagata, Kazuya, et al., (1996), Mutations in the hepatocyte nuclear factor-4 $\alpha$ gene in maturity-onset diabetes of the young (MODY1), Nature, Vol. 384, pp:458-460 (Exhibit 12)					
EXAMINER			DATE CONSIDERED				
/Deborah Carr/			04/21/2006				
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							